

Amendments to the Claims

1 - 34 (Cancel)

35. (New) A method of controlling sound quality produced by a multifunction device (MFD) capable of producing both sound and vibration in response to receiving electronic signals, wherein the MFD is embedded in a mobile communication system, the method comprising:

determining whether the mobile communication system is in a first, second or third state;

in the first state, amplifying audio signals received by the mobile communication system in an audio processor, filtering the amplified audio signals to remove low frequency resonance components in the audio signals that fall below a first threshold, and providing the amplified, filtered audio signals to the MFD;

in the second state, amplifying ring tone signals generated by the mobile communication system in an amplifier external to the audio processor, filtering the amplified audio signals to remove low frequency resonance components in the audio signals that fall below a first threshold, and providing the amplified, filtered audio signals to the MFD to produce a ring tone; and

in the third state, amplifying a signal received by the mobile communication system in an amplifier external to the audio processor and providing the amplified, non-filtered signal to the MFD to produce a vibration.

36. (New) The method of claim 35, wherein the first, second and third states are set by a user of the mobile communication terminal.

37. (New) The method of claim 35, wherein in the first state an audio voice is generated by the MFD.

38. (New) The method of claim 35, wherein in the second state a user sets the MFD to generate a ring tone.

39. (New) The method of claim 35, wherein in the third state a user sets the MFD to vibrate.

40. (New) A apparatus for controlling sound quality produced by a multifunction device (MFD) capable of producing both sound and vibration in response to receiving electronic signals, wherein the MFD is embedded in a mobile communication system, the apparatus comprising:

a processor responsive to a logic signal for determining whether the mobile communication system is in a first, second or third state;

a first switch for routing audio signals received by the mobile communication system and amplified by an audio processor to a filter for filtering the amplified audio signals to remove low frequency resonance components in the audio signals that fall below a first threshold, in the first state, prior to the amplified filtered audio signals are provided to the MFD.

41. (New) The apparatus of claim 40, further comprising:

a second switch, wherein in the second state, the second switch routes ring tone signals generated by the mobile communication system to an amplifier external to the audio processor, prior to the first switch routing the amplified ring tone signals to the filter for filtering the amplified ring tone signals to remove low frequency resonance components in the ring tone signals that fall below the first threshold, and providing the amplified, filtered ring tone signals to the MFD to produce a ring tone.

42. (New) The apparatus of claim 40, further comprising:

a second switch, wherein in the third state, the second switch routes ring tone signals generated by the mobile communication system to an amplifier external to the audio processor to amplify the ring tone signals to generate a vibration, without the first switch routing the amplified ring tone signals to the filter, such that the amplified ring tone signals maintain low frequency resonance components to produce a vibration in the MFD.

43. (New) The apparatus of claim 40, wherein the first, second and third states are set by a user of the mobile communication terminal.

44. (New) The apparatus of claim 40, wherein in the first state, an audio voice is generated by the MFD.

45. (New) The apparatus of claim 40, wherein in the second state a user sets the MFD to generate a ring tone.

46. (New) The apparatus of claim 40, wherein in the third state a user sets the MFD to vibrate.